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	Application No.	Applicant(s)
Notice of Allowability	10/706,779	YANG, BIN
	Examiner	Art Unit
	Nader Bolourchi	2611
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS Is herewith (or previously mailed), a Notice of Allowance (PTOL-8, NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED i	ith the correspondence address n this application. If not included unication will be mailed in due course. THIS
1. This communication is responsive to <u>7/19/2007</u> .		
2. The allowed claim(s) is/are <u>1-5</u> .		
3. ☐ Acknowledgment is made of a claim for foreign priority a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents had 2. ☐ Certified copies of the priority documents had 3. ☐ Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)).  * Certified copies not received: ☐ Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. ☐ A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gifted including changes required by the Notice of Draftsperior (a) ☐ including changes required by the Notice of Draftsperior (b) ☐ including changes required by the attached Examine Paper No./Mail Date ☐ Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in the department of the paper No. INFORMATION about the department of the paper No. Information of t	ve been received. ve been received in Application ocuments have been received.  " of this communication to file MENT of this application.  mitted. Note the attached EX ves reason(s) why the oath of ust be submitted. rson's Patent Drawing Revie  r's Amendment / Comment of the header according to 37 Consit of BIOLOGICAL MAT	on No  In this national stage application from the din this national stage application from the ear reply complying with the requirements.  AMINER'S AMENDMENT or NOTICE OF redeclaration is deficient.  We (PTO-948) attached  In the Office action of the drawings in the front (not the back) of FR 1.121(d).  ERIAL must be submitted. Note the
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No 7. ☐ Examiner's 8. ☑ Examiner's 9. ☐ Other	Informal Patent Application Summary (PTO-413), /Mail Date  Summary (PTO-413), /Mail Date  Date Date Date Date Date Date Date Date Date Date Date DATE NT EXAMINER

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## DETAILED ACTION

## Remarks

- 1. Applicant's amendment dated 7/19/2007 is entered.
- 2. Drawings objections are withdrawn.
- 3. Claim rejections under 35 USC § 112 are withdrawn.

## Response to Arguments

4. Applicant's arguments see pages 7-8, filed 7/19/2007, with respect to claims 1-4 have been fully considered and are persuasive. The rejection of claims 1-4 has been withdrawn.

## Allowable Subject Matter

- 5. Claims 1-5 are allowed.
- 6. The following is an examiner's statement of reasons for allowance:

The prior arts of record fail to teach or suggest in combination, the arrangement that "at a transmitter end, rotating each data symbol in a predetermined initial sequence known to a receiver through a phase rotation factor specific for a type of modulation being used to thereby form rotated data symbols; at a receiver end, derotating the rotated data symbols through different phase rotation factors to generate a derotated sequence;" in combination with "forming a correlation function between the derotated sequence and the initial sequence based on an

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assumed temporal position of the initial sequence contained in a signal received

at the receiver end for each phase rotation factor, wherein a temporal position of

the initial sequence is known up to a certain accuracy; forming a summation of

products between the derotated sequence and the initial sequence for individual

moments in time from the correlation function, and squaring a magnitude of the

summation to form squares; and comparing the squares of the magnitudes and

determining therefrom a modulation type used at the transmitter end" in order to

form "transmission and reception method in a digital telecommunications

system", as recited in claim 1, and some variation of wording as recited in claim 4, and

further limitation of the respective dependent claims 2-3, and 5.

7. Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

**Contact Information** 

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Nader Bolourchi whose telephone number is (571) 272-

8064. The examiner can normally be reached on M-F 8:30 to 4:30.

DAVID C. PAYNE

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9. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David. C. Payne can be reached on (571) 272-3024. The fax phone number

for the organization where this application or proceeding is assigned is (571) 273-8300.

10. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at (866) 217-9197 (toll-free).

Nader Bolourchi 7/30/2007 Art Unit 2611